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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michelle L. Verbsky et al. Art Unit : 1638
Serial No. : 10/772,227 Examiner : Unknown
Filed : February 4, 2004
Title : NUCLEIC ACIDS ENCODING ANTHELMINTIC AGENTS AND PLANTS
MADE THEREFROM

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (5 pages);
3. Copies of Cited References (60 references); and
4. A Return Postcard.

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Respectfully submitted,

Date: June 2, 2005

Ronald C. Lundquist, Ph.D.
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June 2, 2005

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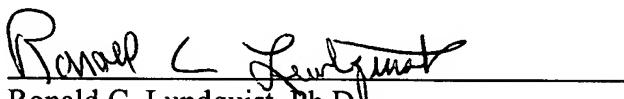
INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

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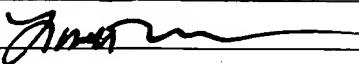
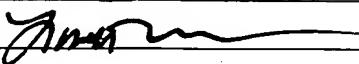

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Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12557-016001	Application No. 10/772,227
Information Disclosure Statement by Applicant <small>(Use several sheets if necessary)</small>		Applicant Michelle L. Verbsky et al.		
		Filing Date February 4, 2004	Group Art Unit 1638	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,761,373	08/02/88	Anderson et al.			
	AB	4,769,061	09/06/88	Comai			
	AC	4,771,571	09/20/88	Obrero et al.			
	AD	4,810,648	03/07/89	Stalker			
	AE	4,851,341	07/25/89	Hopp et al.			
	AF	4,940,835	07/10/90	Shah et al.			
	AG	4,975,374	12/04/90	Goodman et al.			
	AH	5,001,912	03/26/91	DeWalch			
	AI	5,013,659	05/07/91	Bedbrook et al.			
	AJ	5,093,124	03/03/92	Kulenkampff			
	AK	5,162,602	11/10/92	Somers et al.			
	AL	5,192,546	03/09/93	Abercrombie			
	AM	5,204,253	04/20/93	Sanford et al.			
	AN	5,246,716	09/21/93	Sedun et al.			
	AO	5,346,698	09/13/94	Abercrombie			
	AP	5,491,084	02/13/96	Chalfie et al.			
	AQ	5,554,798	09/10/96	Lundquist et al.			
	AR	5,668,292	09/16/97	Somerville et al.			
	AS	5,674,897	10/07/97	Kim et al.			
	AT	5,698,592	12/16/97	Kim et al.			
	AU	5,750,386	05/12/98	Conkling et al.			
	AV	5,767,366	06/16/98	Sathasivan et al.			
	AW	5,801,026	09/01/98	Somerville et al.			
	AX	5,846,784	12/08/98	Hitz			
	AY	5,928,937	07/27/99	Kakefuda et al.			
	AZ	6,013,863	01/11/00	Lundquist et al.			
	AAA	6,028,248	02/22/00	Somerville et al.			

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U.S. Patent Documents							
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	ABB	6,048,714	04/11/00	Hiromoto			
	ACC	6,084,155	07/04/00	Volrath et al.			
	ADD	6,124,359	09/26/00	Feitelson et al.			
	AEE	6,194,167	02/27/01	Browse et al.			
	AFF	6,225,528	05/01/01	Chin et al.			
	AGG	6,291,742	09/18/01	Somerville et al.			
	AHH	6,310,194	10/30/01	Somerville et al.			
	AII	6,329,518	12/11/01	Green et al.			
	AJJ	6,333,448	12/25/01	Bafor et al.			
	AKK	20010016956	08/23/01	Ward et al.			

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							Yes No
	ALL	0 242 246	10/21/87	EPO			
	AMM	WO 98/46762	10/22/98	PCT			

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ANN	Altschul et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <i>Nucl. Acids Res.</i> , 1997, 25(17):3389-3402
	AOO	Atkinson et al., "Image Analysis of the Growth of <i>Globodera pallida</i> and <i>Meloidogyne incognita</i> on Transgenic Tomato Roots Expressing Cystatins," <i>J. Nematol.</i> , 1996, 28(2):209-215
	APP	Banaá et al., "The involvement of phospholipids: diacylglycerol acyltransferases in triacylglycerol production," <i>Biochem. Soc. Trans.</i> , 2000, 28(6):703-705
	AQQ	Barker et al., "Plant and Soil Nematodes: Societal Impact and Focus for the Future," <i>J. Nematol.</i> , 1994, 26(2):127-137
	ARR	Bateman et al., "Pfam 3.1: 1313 multiple alignments and profile HMMs match the majority of proteins," <i>Nucl. Acids Res.</i> , 1999, 27:260-262
	ASS	Bouvier-Navé et al., "Expression in yeast of an acyl-CoA:diacylglycerol acyltransferase cDNA from <i>Caenorhabditis elegans</i> ," <i>Biochem. Soc. Trans.</i> , 2000, 28(6):692-695
	ATT	Bouvier-Navé et al., "Expression in yeast and tobacco of plant cDNAs encoding acyl CoA:diacylglycerol acyltransferase," <i>Eur. J. Biochem.</i> , 2000, 267(1):85-96

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	AUU	Broadwater et al., "Desaturation and Hydroxylation. Residues 148 and 324 of <i>Arabidopsis</i> FAD2, in Addition to Substrate Chain Length, Exert A Major Influence in Partitioning of Catalytic Specificity," <i>J. Biol. Chem.</i> , 2002, 277(18):15613-15620
	AVV	Broun & Sommerville, "Accumulation of Ricinoleic, Lesquerolic, and Densipolic Acids in Seeds of Transgenic <i>Arabidopsis</i> Plants That Express a Fatty Acyl Hydroxylase cDNA from Castor Bean," <i>Plant Physiol.</i> , 1997, 113(3):933-942
	AWW	Broun et al., "A bifunctional oleate 12-hydroxylase: desaturase from <i>Lesquerella fendleri</i> ," <i>Plant J.</i> , 1998, 13(2):201-210
	AXX	Broun et al., "Catalytic Plasticity of Fatty Acid Modification Enzymes Underlying Chemical Diversity of Plant Lipids," <i>Science</i> , 1998, 282(5392):1315-1317
	AYY	Bustos et al., "Regulation of β -Glucuronidase Expression in Transgenic Tobacco Plants by an A/T-Rich, <i>cis</i> -Acting Sequence Found Upstream of a French Bean β -Phaseolin Gene," <i>Plant Cell</i> , 1989, 1:839-853
	AZZ	Carpenter, et al., "Township limits on 1,3-D will impact adjustment to methyl bromide phase-out," <i>California Agriculture</i> , 2001, 55(3):12-18
	AAAA	Carter, "Costs uncertain: Methyl bromide phase-out becomes reality," <i>California Agriculture</i> , 2001, 55(3):2
	ABBB	Clough & Bent, "Floral dip: a simplified method for <i>Agrobacterium</i> -mediated transformation of <i>Arabidopsis thaliana</i> ," <i>Plant J.</i> , 1998, 16(6):735-743
	ACCC	Dahlqvist et al., "Phospholipid:diacylglycerol acyltransferase: An enzyme that catalyzes the acyl-CoA-independent formation of triacylglycerol in yeast and plants," <i>Proc. Natl. Acad. Sci USA</i> , 2000, 97(12):6487-6492
	ADDD	Davis et al., "Nematicidal Activity of Fatty Acid Esters on Soybean Cyst and Root-knot Nematodes," <i>J. Nematol.</i> , 1997, 29(4S):677-684
	AEEE	Djian et al., "Nematicidal Properties of Carboxylic Acids and Derivatives," <i>Pestic. Biochem. Physiol.</i> , 1994, 50(3):229-239
	AFFF	Eisenback, "Techniques for Measuring Nematode Development and Egg Production," <i>Laboratory Techniques in Nematode Ecology</i> , Wheeler et al. (eds.), Society of Nematologists, Hyattsville, MD, pp. 1-4
	AGGG	van Engelen et al., "pBINPLUS: an improved plant transformation vector based on bPIN19," <i>Transgenic Res.</i> , 1995, 4:288-290
	AHHH	Gaginella et al., "Actions on Ricinoleic Acid and Structurally Related Fatty Acids on the Gastrointestinal Tract. II. Effects on Water and Electrolyte Absorption <i>In Vitro</i> ," <i>J. Pharmacol. Exp. Ther.</i> , 1975, 195(2):355-361
	AIII	Gaginella et al., "Cytotoxicity of Ricinoleic Acid (Castor Oil) And Other Intestinal Secretagogues on Isolated Intestinal Epithelial Cells," <i>J. Pharmacol. Exp. Ther.</i> , 1977, 201(1):259-266
	AJJJ	Gamborg et al., "Nutrient Requirements of Suspension Cultures of Soybean Root Cells," <i>Exp. Cell Res.</i> , 1968, 50:151-158
	AKKK	Green et al., "Binding site requirements for pea nuclear protein factor GT-1 correlate with sequences required for light-dependent transcriptional activation of the <i>rbcS-3A</i> gene," <i>EMBO J.</i> , 1988, 7(13):4035-4044
	ALLL	Hackney & Dickerson, "Marigold, Castor Bean, and Chrysanthemum as Controls of Meloidogyne incognita and <i>Pratylenchus allenii</i> ," <i>J. Nematol.</i> , 1975, 7(1):84-90

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	AMMM	Heinrich et al., "PotRb7 – A Gene Equivalent to tobRB7 from Potato (Accession No. U65700)," <u>Plant Physiol.</u> , 1996, 112(2):862
	ANNN	Atkinson et al., "Engineering Resistance to Plant-parasitic Nematodes," <u>The Physiology and Biochemistry of Free-Living and Plant-Parasitic Nematodes</u> , 1998, Perry & Wright (eds.), CAB International, Chapter 15, pp. 381-413
	AOOO	Hussey & Barker, "A Comparison of Methods of Collecting Inocula of Meloidogyne Spp., Including a New Technique," <u>Plant Disease Reporter</u> , 1973, 57(12):1025-1028
	APPP	Jako et al., "Seed-Specific Over-Expression of an Arabidopsis cDNA Encoding a Diacylglycerol Acyltransferase Enhances Seed Oil Content and Seed Weight," <u>Plant Physiol.</u> , 2001, 126(2):861-874
	AQQQ	Jordano et al., "A Sunflower Helianthinin Gene Upstream Sequence Ensemble Contains an Enhancer and Sites of Nuclear Protein Interaction," <u>Plant Cell</u> , 1989, 1:855-866
	ARRR	Karlin and Altschul, "Methods for assessing the statistical significance of molecular sequence features by using general scoring schemes," <u>Proc. Natl. Acad. Sci. USA</u> , 1990, 87:2264-2268
	ASSS	Karlin and Altschul, "Applications and statistics for multiple high-scoring segments in molecular sequences," <u>Proc. Natl. Acad. Sci. USA</u> , 1993, 90:5873-5877
	ATTT	Lasota & Dybas, "Abamectin As A Pesticide for Agricultural Use," <u>Acta Leidensia</u> , 1990, 59(1-2):217-225
	AUUU	Lee et al., "Identification of Non-Heme Diiron Proteins That Catalyze Triple Bond and Epoxy Group Formation," <u>Science</u> , 1998, 280:915-918
	AVVV	Marroquin et al., "Bacillus thuringiensis (Bt) Toxin Susceptibility and Isolation of Resistance Mutants in the Nematode <i>Caenorhabditis elegans</i> ," <u>Genetics</u> , 2000, 155(4):1693-1699
	AWWW	McCormick, "Transformation of tomato with <i>Agrobacterium tumefaciens</i> ," <u>Plant Tissue Culture Manual</u> , 1991, B6:1-9
	AXXX	McElroy et al., "Development of <i>gusA</i> reporter gene constructs for cereal transformation: Availability of plant transformation vectors from the CAMBIA Molecular Genetic Resource Service," <u>Mol. Breed.</u> , 1995, 1:27-37
	AYYY	Meier et al., "Elicitor-Inducible and Constitutive in Vivo DNA Footprints Indicate Novel <i>cis</i> -Acting Elements in the Promoter of a Parsley Gene Encoding Pathogenesis-Related Protein 1," <u>Plant Cell</u> , 1991, 3:309-315
	AZZZ	Mello et al., "Efficient gene transfer in <i>C.elegans</i> : extrachromosomal maintenance and integration of transforming sequences," <u>EMBO J.</u> , 1991, 10(12):3959-3970
	AAAAA	Millar et al., "All fatty acids are not equal: discrimination in plant membrane lipids," <u>Trends Plant Sci.</u> , 2000, 5(3):95-101
	BBBBB	Miquel & Browse, "Arabidopsis Mutants Deficient in Polyunsaturated Fatty Acid Synthesis. Biochemical and Genetic Characterization of a Plant Oleoyl-Phosphatidylcholine Desaturase," <u>J. Biol. Chem.</u> , 1992, 267(3):1502-1509
	ACCCC	Momin & Nair, "Pest-Managing Efficacy of <i>trans</i> -Asarone Isolated from <i>Daucus carota</i> L. Seeds," <u>J. Agric. Food Chem.</u> , 2002, 50(16):4475-4478
	ADDDD	Moon et al., "A Condensing Enzyme from the Seeds of <i>Lesquerella fendleri</i> That Specifically Elongates Hydroxy Fatty Acids," <u>Plant Physiol.</u> , 2001, 127(4):1635-1643
	AEEEE	Peyou-Ndi et al., "Identification and Characterization of an Animal Δ^{12} Fatty Acid Desaturase Gene by Heterologous Expression in <i>Saccharomyces cerevisiae</i> ," <u>Arch. Biochem. Biophys.</u> , 2000, 376(2):399-408

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	AFFFF	Sarda et al., "Characterization of closely related δ -TIP genes encoding aquaporins which are differentially expressed in sunflower roots upon water deprivation through exposure to air," <u>Plant Mol. Biol.</u> , 1999, 40(1):179-191	
	AGGGG	Singh et al., "Inhibition of polyunsaturated fatty acid accumulation in plants expressing a fatty acid epoxygenase," <u>Biochem. Society Trans.</u> , 2000, 28(6):940-942	
	AHHHH	Singh et al., "Transgenic expression of a Δ 12-epoxygenase gene in <i>Arabidopsis</i> seeds inhibits accumulation of linoleic acid," <u>Planta</u> , 2001, 212:872-879	
	AIIII	Sonnhammer et al., "Pfam: A Comprehensive Database of Protein Domain Families Based on Seed Alignments," <u>Proteins: Structure, Function, and Genetics</u> , 1997, 28:405-420	
	AJJJJ	Sonnhammer et al., "Pfam: multiple sequence alignments and HMM-profiles of protein domains," <u>Nucl. Acids Res.</u> , 1998, 26(1):320-322	
	AKKKK	Spychalla et al., "Identification of an animal ω -3 fatty acid desaturase by heterologous expression in <i>Arabidopsis</i> ," <u>Proc. Natl. Acad. Sci. USA</u> , 1997, 94(4):1142-1147	
	ALLLL	Stadler et al., "Fatty Acids and Other Compounds with Nematicidal Activity from Cultures of Basidiomycetes," <u>Planta Medica</u> , 1994, 60(2):128-132	
	AMMMM	van de Loo et al., "Unusual Fatty Acids," <u>Lipid Metabolism in Plants</u> , 1993, CRC Press, Boca Raton, Chapter 3, pp. 91-126	
	ANNNN	van de Loo et al., "An oleate 12-hydroxylase from <i>Ricinus communis</i> L. is a fatty acyl desaturase homolog," <u>Proc. Natl. Acad. Sci. USA</u> , 1995, 92(15):6743-6747	
	AOOOO	Vos et al., "The tomato <i>Mi-1</i> gene confers resistance to both root-knot nematodes and potato aphids," <u>Nat. Biotechnol.</u> , 1998, 16:1365-1369	
	APPPP	Wright & Perry, "Musculature and Neurobiology," <u>The Physiology and Biochemistry of Free-Living and Plant-parasitic Nematodes</u> , 1998, CAB International, Chapter 3, pp. 49-73	
	AQQQQ	Yamamoto et al., "Characterization of <i>cis</i> -Acting Sequences Regulating Root-Specific Gene Expression in Tobacco," <u>Plant Cell</u> , 1991, 3:371-382	
	ARRRR	Ye et al., " <i>Arabidopsis</i> ovule is the target for <i>Agrobacterium</i> in <i>planta</i> vacuum infiltration transformation,"	
	ASSSS	Zhang et al., "DNA Sequences That Activate Isocitrate Lyase Gene Expression during Late Embryogenesis and during Postgerminative Growth," <u>Plant Physiol.</u> , 1996, 110:1069-1079	

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